

## SOAL UTBK TPS BAHASA INGGRIS 2019

[www.l4bfisika.web.id](http://www.l4bfisika.web.id)

Questions 45—48 are based on the following passage.

One study concluded that saltwater crocodiles like to surf the waves and can travel hundreds of kilometers by "riding" the ocean waves. Australian researchers used underwater and satellite sensors to follow the movements of these 20 reptiles. They found that saltwater crocodiles traveled more than 10 km, but only when the waves flowed towards their destination.

Estuarine or saltwater crocodiles are the largest reptile on earth and can grow to a body length of 5.5 meters. This animal is not a good swimmer and its habitat is in sea water. Yet, their "home" covers thousands of kilometers in the area of the Southeast Pacific. Researchers have long wondered how this crocodile can spread so widely. They noted that of the many extraordinary abilities possessed by animals, the ability of certain species to move long distances *overcoming the geographic barrier* is one of the greatest.

Despite spending most of their lives in salt water, these crocodiles are not considered sea creatures because these animals depend on land to find food and drink. In a study led by Dr. Hamish Campbell of the University of Queensland, 20 saltwater crocodiles living downstream of the North Kennedy River in Queensland, North Australia, were captured and attached to a satellite tracking device. During the study, eight crocodiles traveled across the ocean. One crocodile moved from the downstream of the river to the west coast of the York Peninsula which is 500 km in 25 days. *This crocodile covered the distance by riding seasonal waves in the Gulf of Carpentaria during the summer rainy season.* This crocodile can live in sea water without eating and drinking for a long period of time. Thus, the animal travels only when the waves of the sea allow it to move to faraway places. Another crocodile spent 20 days traveling 411 km. When a crocodile arrived at one place, large waves flowed in a different direction from the animal's destination, and thus the crocodile took refuge in one bay for four days and then continued the journey as the waves changed directions.

(Adapted from <https://www.bbc.com/>)

The phrase '*overcoming the geographic barrier*' in paragraph 2 can be replaced by ....

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to move to faraway places. Another crocodile spent 20 days traveling 411 km. When a crocodile arrived at one place, large waves flowed in a different direction from the animal's destination, and thus the crocodile took refuge in one bay for four days and then continued the journey as the waves changed directions.

(Adapted from <https://www.bbc.com/>)

The phrase '*overcoming the geographic barrier*' in paragraph 2 can be replaced by ....

- (A) using its natural adaptability
- (B) conquering the ocean waves
- (C) solving marine problems
- (D) passing through sea blockage
- (E) beating the obstacle in nature

What is the main idea of the passage?

- (A) Saltwater crocodiles enjoy the journey through the waves up to tens of kilometers.
- (B) Australian researchers question the movement of saltwater crocodiles in the ocean.
- (C) Saltwater crocodiles can travel tens of kilometers in the ocean by the help of the waves.
- (D) Saltwater crocodiles can only be drifted by the flows of the waves to reach their destiny.
- (E) The movement of saltwater crocodiles can be tracked with sensor and satellite technology.

The author's intention in writing the sentence 'This crocodile covered the distance by riding seasonal waves in the Gulf of Carpentaria during the summer rainy season' in paragraph 3 is to ....

- (A) explain how saltwater crocodiles move
- (B) detail the seasonal activities of saltwater crocodiles
- (C) confirm the unique level of saltwater crocodile mobility
- (D) give an example of a saltwater crocodile migration pattern
- (E) describe the distribution of saltwater crocodiles in their habitat

What is the main reason the author conveyed his/her ideas in the passage?

- (A) Many people think that crocodiles can only live in salt water.
- (B) Research on saltwater crocodiles has not received much support.
- (C) The extraordinary abilities many animals have are not known exactly.
- (D) Crocodiles are often associated with the ability to move in long distances.
- (E) The extent the saltwater crocodiles travel in the Southeast Pacific is unknown.



Questions 49–52 are based on the following passage.

The use of modern chemical drugs and herbal medicines, including herbs, simultaneously to treat certain diseases must be exercised carefully. Random combined use can lead to health worsening. Clinical trials showed the use of simvastatin as anti-cholesterol drugs or a mixture of guava leaves, Javanese turmeric (*temulawak*) roots, and Dutch teak leaves as traditional medicine gave good results if they are used separately. But, if combined, the results are harmful. Similar harms happen in the combined use of metformin and black tea to treat diabetes. If both are used individually, they can reduce blood sugar levels in large quantities. However, if combined, the decrease in blood sugar content is actually very small.

As for herbal medicines, besides being absorbed more slowly by the body, sometimes they are binding substances from chemical drugs. As a result, the effect of chemical drugs is not optimal. Ginseng should not be combined with heart drugs because it will worsen the heart condition. In addition, garlic, which is also an anticoagulant herbal medicine, should not be combined with chemical drugs such as acetazol or clopidogril because it will cause bleeding.

Indonesians know and realize the benefits of medicinal plants for a long time. However, the traditional Indonesian medicine industry has not developed. Currently there are 6 phytopharmacologically based medicines and 31 standardized herbal medicines. The herbs in Indonesia are thousands in number. *Jamu* is the lowest level in the grouping of the Indonesian traditional medicines, followed by standardized herbal medicines and phytopharmacologically based medicines as the highest level. To improve the status of herbal medicines to standardized herbal medicines, there must be a non-clinical test. To be phytopharmacologically based medicines, clinical trials and non-clinical trials must be carried out on these medicines. Because of this, many herbal producers are reluctant to improve the status of their products because even without such complicated procedures, the herbal has already sold well. Manufacturers will only increase the status of their products to standardized herbal medicines or phytopharmacologically based medicines to ensure the safety of their products to consumers and export interests.

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(Adapted from <https://lifestyle.kompas.com/>).

The writer emphasizes the importance of separating the consumption of chemical medicines from that of the herbal medicines in paragraph(s) ....

- (A) 1
- (B) 2
- (C) 3
- (D) 1 and 2
- (E) 2 and 3

Based on the passage, health risks of combining chemical drugs and herbs are observed in the incidents as follows, *EXCEPT* ....

- (A) ineffective reduction of blood sugar in the use of metformin and black tea simultaneously
- (B) increase in blood sugar in the use of garlic and chemical drugs in the category of acetazol
- (C) worsening heart conditions in the consumption of ginseng that combines with other chemical drugs
- (D) the onset of bleeding in the consumption of garlic together with chemical drugs categorized as acetazol or clopidogril
- (E) cholesterol treatment in the simultaneous use of simvastatin anticholesterol drugs and a mixture of guava leaves, Javanese turmeric (*temulawak*) roots, and Dutch teak leaves

Which is the most appropriate and general conclusion of the passage?

- (A) Indonesia has already standardized herbal medicines pharmacologically.
- (B) Consuming herbs and chemical drugs together has the potential to improve one's health.
- (C) Use of herbal and chemical drugs in combination must be strictly based on the prescription.
- (D) The process of standardizing herbal medicines is complicated and costly and it takes a long time.
- (E) Herbal medicines that bind substances to chemical drugs are the cause of the reduced effect of chemical drugs.

Who needs to read the passage?

- (A) Patients
- (B) Doctors
- (C) Nurses
- (D) Pharmacists
- (E) Researchers

Questions 49–52 are based on the following passage.

Today many people prefer to consume green tea. This is because green tea has many benefits. One of the benefits from drinking green tea is increasing immunity. Getting fatigued easily is a sign that a person's immunity is not in a good state. Healthy lifestyle can be promoted by consuming green tea. In green tea, there are polyphenols and sodium which are very effective for boosting our immunity.

Another benefit of green tea is that it can reduce fever. Three ingredients of green tea, polyphenols, magnesium, and alkaloids, are demonstrated to be effective in treating a high fever. If a person experiences extreme body changes, for example due to rain or due to other causes, his/her body temperature increases. High body temperature interferes with their activity and people get fainted due to excessive heat. Consuming hot green tea is believed to reduce excessive body heat.

Still another benefit of green tea is removing toxins in the body. Anyone who is easily sick or has severe diseases is usually intoxicated. By consuming green tea, the toxins in their body will be neutralized. The toxins are discharged out of the body together with the sweat and the urine. In green tea, there are substances called tannins and antioxidants. Both substances will work together to secrete dangerous toxins safely.

In addition, green tea can also be used as an anti-eczema agent. The chlorophyll and flavonoids in green tea are indeed very effective to treat eczema. Besides, green tea can also be used to recover wounds. The fact that in green tea there is a protein that can overcome swelling. The substance works very well in repairing damaged cells and forming new cells so that the wound can heal and no scars are visible.

A study conducted by a research team from Japan revealed that green tea has polyphenols, vitamins, and minerals that can make our heart better in health. One way to maintain this is to consume it every day.



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*(Adapted from <http://www.artike.com>)*

In which paragraph does the author emphasize the effect of drinking green tea on skin health?

- (A) 1
- (B) 2
- (C) 3
- (D) 4
- (E) 5

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A study conducted by a research team from Japan revealed that green tea has polyphenols, chlorophyll, and minerals that can make our heart better in health. One way to maintain this is to consume tea every day.

*(Adapted from <http://www.artike.com>)*

Why does the author argue that drinking green tea regularly can reduce the risk of heart disease?

- (A) Green tea contains polyphenols, chlorophyll, and sodium.
- (B) There is a substance the so-called alkaloid in green tea.
- (C) Research results reveal the reduced risk of heart disease.
- (D) Compounds in tea make the work of the heart balanced.
- (E) Antioxidants in green tea improve blood circulation.

every day.

(Adapted from <http://www.arikechana.com/>)

What conclusion can we draw based on the passage about drinking green tea on the health of non-green tea drinkers?

- (A) No account is discussed between drinking green tea and their health state.
- (B) The quality of their health is as good as that of green tea drinkers.
- (C) They tend to easily contract various skin diseases.
- (D) They are prone to heart diseases.
- (E) They have good immunity.

every day.

(Adapted from <http://www.arikechana.com/>)

Which readers can benefit from the passage?

- (A) Green tea drinkers
- (B) Producers of green tea
- (C) Researchers on types of tea
- (D) People with heart diseases
- (E) Readers in general